# Request to Archive
## With The National Centers for Environmental Information
## For Daily OLR CDR Version 1
## Provided by CICS-MD

## 2014-01-24

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

**1. Who is the primary point of contact for this request?**

Hai-Tien Lee

CICS-MD

xxxxxxxxxxxxxxxx

lee@umd.edu

**2. Name the organization or group responsible for creating the dataset.**

CICS-MD

**3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.**

The product generated is the daily mean OLR time series in global 1 degree x 1 degree equal-angle gridded maps spanning from January 1, 1979 to the December 31, 2012 (and continues on).

The OLR is estimated directly from the HIRS radiance observations for all sky conditions. The observations from Imagers onboard international operational geostationary satellites are incorporated to improve the sampling of the OLR diurnal variation.

**4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)**

From 1979-01-01

Ongoing as continuous updates to the data record

**5. Edition or version number(s) of the dataset:**

v01r00

**6. Describe the level to which the data are processed. For example, are these unprocessed raw observations, derived parameters, quality controlled or inter-calibrated data, etc.?**

CDR data set in NetCDF format

**7. Approximate date when the dataset was or will be released to the public:**

2014-07-01

**8. Who are the expected users of the archived data? How will the archived data be used?**

Users conducting studies/operation in global change monitoring, earth radiation budget, precipitation, tropical dynamics and monsoon diagnostics/forecast, tropical expansion, etc.

**9. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?**

No

**10. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?**

This is the initial delivery into this system.

**11. List the input datasets and ancillary information used to produce the data.**

Dynamic input: HIRS level-1B from TIROS-N to MetOp-B (1979 to present), GridSat CDR data (starting 1980), GSIP OLR data (starting 2014)

Static input: OLR regression coefficients, HIRS radiance calibration coefficients, Diurnal Models, Intersatellite calibration adjustments.

**12. List web pages and other links that provide information on the data.**

CF compliant metadata are provided within the NetCDF data file

**13. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.**

1. CATBD for Daily HIRS OLR CDR
2. Lee, H.-T., A. Gruber, R. G. Ellingson and I. Laszlo, 2007: Development of the HIRS Outgoing Longwave Radiation climate data set. J. Atmos. Ocean. Tech., 24, 20292047.
3. Lee, H.-T., A. Heidinger, A. Gruber and R. G. Ellingson, 2004: The HIRS Outgoing Longwave Radiation product from hybrid polar and geosynchronous satellite observations. Advances in Space Research, 33, 1120-1124.

**14. Indicate the data file format(s).**

1. netCDF-4

**15. Are the data files compressed?**

No

**16. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).**

hirs_olr_day_v01r00_1979.nc
(where 1979 is data coverage year YYYY. YYYY=1979, 1980, ...., 2012, 2013)

**17. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?**

http://cics.umd.edu/~lee/hirs_olr_day_v01r00_2005.nc (will be available soon)

**18. What is the total data volume to be submitted?**

<u>Historic Data: all historic data or data submitted as a completed collection.</u>

| | |
|---|---|
| Total Data Volume: | 7GB |
| Number of Data Files: | 34 |

<u>Continuous Data: data volume rate for a continuous data production.</u>

| | |
|---|---|
| Total Data Volume Rate: | 190MB per Year |
| Data File Frequency: | 1 per Year |
| Data Production Start: | 2014-07-01 |

**19. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.**

The Daily OLR CDR product is generated daily. But the netCDF CDR data files will be updated/augmented annually (one year worth of daily OLR data per file)

**20. Describe the server that will connect to the ingest server at NCEI for submitting the data.**

Physical Location:        College Park, MD 20742
System Name:             SNOW.UMD.EDU
System Owner:            Hai-Tien Lee
Additional Information:

**21. What are the possible methods for submitting the data to NCEI? Select all that apply.**

1. FTP PULL
2. FTP PUSH
SFTP push, URL link

**22. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.**

1. Unknown

**23. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?**

No known constraints apply to the data.

**24. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.**

The archive of OLR CDR provides the public access to this long time series data set useful for global change and many other applications.

**25. Are the data archived at another facility or are there plans to do so? Please explain.**

parallel production is maintained at CICS-MD development site during IOC phase

**26. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?**

IOC transition for HIRS Daily OLR CDR

**27. Do you have a data management plan for your data?**

No

**28. Have funds been allocated to archive the data at NCEI?**

No

**29. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.**

Daily HIRS OLR CDR project

**30. Is there a desired deadline for NCEI to archive and provide access to the data?**

Archive by:                2014-06-30
Accessible by:

**31. Add any other pertinent information for this request.**

None